

Notice of Allowability

Application No.

10/668,304

Examiner

Geoffrey Mruk

Applicant(s)

WATANABE ET AL.

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3 June 2005.
2. ☒ The allowed claim(s) is/are 1-8, 10-18 and 20-22.
3. ☒ The drawings filed on 03 June 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 6/3/05, 7/5/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


MANISH S. SHAH
PRIMARY EXAMINER

8/2/05

DETAILED ACTION

The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of claim 1 is that the applicant's claimed invention includes an inkjet head having a plurality of first contact lands extending from respective ones of the driving electrodes along a surface of the piezoelectric sheet, each of the first contact lands being located in a vicinity of corresponding one of the driving electrodes; and a power supply board having a plurality of second contact lands formed at positions corresponding to the first contact lands, the second contact lands being connected with respective ones of the first contact lands for power supply, wherein the driving electrodes are arranged such that the first contact land extending from one driving electrode is placed between two driving electrodes adjacent to the one driving electrode. It is this limitation, expressed in the claimed combination not found, taught or suggested in the prior art, that makes these claims allowable over the prior art.

The primary reason for allowance of claim 12 is that the applicant's claimed invention includes an inkjet head having a plurality of first contact lands extending from respective ones of the driving electrodes along a surface of the piezoelectric sheet, each of the first contact lands being located in a vicinity of corresponding one of the driving electrodes, the first contact lands being to be connected with respective ones of second contact lands of a printed board for power supply, wherein the driving electrodes are arranged such that the first contact land extending from one driving electrode is placed between two driving electrodes adjacent to the one driving electrode. It is this

limitation, expressed in the claimed combination not found, taught or suggested in the prior art, that makes these claims allowable over the prior art.

The examiner makes of record that the previous drawing objections dated 3 March 2005 are withdrawn in view of applicant's remarks.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kitahara et al. (US 5,929,881) discloses an ink jet recording head having improved arrangement of electrodes. However, Kitahara fails to disclose the structure of the electrical connections to the power supply.

Isono et al. (US 6,604,817 B2) discloses a print head for a piezoelectric ink jet printer. However, Isono fails to disclose the electrical connections of the cable (Fig. 2, element 30).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey Mruk whose telephone number is (571) 272-2810. The examiner can normally be reached on 7am - 330pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GSM
7/28/2005

GM

 8/2/05
MANISH S. SHAH
PRIMARY EXAMINER